

10/690,021

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	37	Pb\$10Nb\$2O\$1 same ferroelectric\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 12:57
L2	37	Pb\$10Nb\$2O\$1 same ferroelectric\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 12:57
L3	0	Pb\$10Nb\$2O\$1 same ferroelectric\$1 .clm.	US-PGPUB; USPAT	OR	OFF	2006/05/16 12:57
S2	0	Pb\$1Zr\$1Ti\$1Nb\$1O\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/02 09:31
S3	0	Pb\$1Zr\$1Nb\$1O\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:16
S4	0	Pb\$2Zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:05
S5	103	Pb\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:06
S6	0	Pb\$2Zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:05

## EAST Search History

S7	2	Pb\$2Ti\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08
S8	0	Pb\$2v\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:07
S9	0	Pb\$2w\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:07
S10	0	Pb\$2hf\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08
S11	0	Pb\$2ta\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08
S12	0	Pb\$5zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08
S13	0	Pb\$6zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08
S14	0	Pb\$7zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:08

## EAST Search History

S15	5	Pb\$7ti\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:13
S16	1	Pb\$7v\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:14
S17	0	Pb\$7w\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:14
S18	0	Pb\$7hf\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:14
S19	0	Pb\$7ta\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:14
S20	5	Pb\$10ti\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:56
S21	0	S20 not S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:15
S22	0	Pb\$10zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:15

## EAST Search History

S23	1	Pb\$10v\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 12:15
S24	0	Pb\$10w\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:37
S27	0	Pb\$5La\$2Ti\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:47
S28	0	Pb\$5La\$2Zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:37
S29	142	Ferro\$1electric same (lead\$1 near (zirconate\$1 titanate\$1) near niobate\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:14
S30	68	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1) near niobate\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:41
S31	2	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1vanadate\$1 tantalate\$1) near niobate\$1) .ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:42
S32	11	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1vanadate\$1 tantalate\$1) near niobate\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:55

## EAST Search History

S33	0	Pb\$5Ln\$2Ti\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:47
S34	0	Pb\$5Ln\$2Zr\$2Nb\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:47
S35	68	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1 vanadate\$1 tantalate\$1) near niobate\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:55
S36	8	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1) same rhombohedral)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 14:02
S37	8	Ferro\$1electric near10 (lead\$1 near (zirconate\$1 titanate\$1) same rhombohedral)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 14:32
S38	26	Pb\$10ti\$2Zr\$2O\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 13:57
S39	2	Ferro\$1electric same rhombohedral same crystal\$1 near orientation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/06 14:33
S41	1676	pyroelectric and ferroelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/09 10:15

## EAST Search History

S42	974	pyroelectric near10 ferroelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/09 11:19
S43	94	PZT same si and (tetragonal rhombohedral)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/09 11:21
S44	67	PZT same si and PZT same (tetragonal rhombohedral)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/09 11:25
S45	46	PZT same si and PZT same (rhombohedral)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:20
S46	709	Ferroelectric same (lead near10 niobate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:14
S47	122	Pb5Nb1O5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 12:56
S48	11	Pb5Nb1O3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:17
S49	11	Pb6Nb2O3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:18

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S50	0	S49 not S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:18
S51	11	Pb\$10Nb\$2O3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:23
S52	0	Pb\$10Nb\$2O3 .clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/11 14:23
S55	2027	piezoelectric near actuator\$1 and ferroelectric memory and ferroelectric near capacitor\$1 and substrate\$1	USPAT	OR	OFF	2005/12/28 12:48
S56	1669	piezoelectric near actuator\$1 and ferroelectric memory same ferroelectric near capacitor\$1 and substrate\$1	USPAT	OR	OFF	2005/12/28 12:48
S57	706	piezoelectric near actuator\$1 same substrate\$1 and ferroelectric memory same ferroelectric near capacitor\$1 same substrate\$1	USPAT	OR	OFF	2005/12/28 12:53
S58	1	(piezoelectric near actuator\$1 same substrate\$1) and (ferroelectric near memory same ferroelectric near capacitor\$1 same substrate\$1)	USPAT	OR	OFF	2005/12/28 12:54
S61	2	(piezoelectric near actuator\$1 ) and (ferroelectric near memory same ferroelectric near capacitor\$1 )	USPAT	OR	OFF	2005/12/28 12:56
S62	19	(piezoelectric near actuator\$1 ) and (ferroelectric near memory same ferroelectric near capacitor\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:13

## EAST Search History

S63	17	S62 not S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:02
S64	5	(piezoelectric near actuator\$1 ) same(ferroelectric near memory same ferroelectric near capacitor\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 12:57
S65	12	S63 not S64 not S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:02
S66	12	S63 not S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:02
S67	17774	(piezoelectric near actuator\$1 ) or (ferroelectric near memory same ferroelectric near capacitor\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:36
S68	15249	(piezoelectric near actuator\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:14
S69	6615	(piezoelectric near actuator\$1 ) . ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:14
S70	4705	(piezoelectric near actuator\$1 ) .ti	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:17



## EAST Search History

S71	4705	(piezoelectric near actuator\$1 ) .ti. and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:17
S72	86	(piezoelectric near actuator\$1 ) .ti. and ferroelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:17
S73	13	(piezoelectric near actuator\$1 ) .ti. and ferroelectric near film\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:18
S74	13	(piezoelectric near actuator\$1 ) .ti. and ferroelectric near film\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:19
S75	81	(piezoelectric near actuator\$1 ) and ferroelectric near film\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:19
S76	21	(piezoelectric near actuator\$1 ) same ferroelectric near film\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:21
S77	191	(piezoelectric near actuator\$1 ) same ferroelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:21
S78	1429	(ferroelectric near memory same ferroelectric near capacitor\$1 same transistor\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:36

## EAST Search History

S79	1429	(ferroelectric near memory same ferroelectric near capacitor\$1 same transistor\$1 same ferroelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:37
S80	176	(ferroelectric near memory same ferroelectric near capacitor\$1 same transistor\$1 same ferroelectric near film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 16:37
S81	0	"10690021"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 10:58
S82	1	10/690,021	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 10:58
S83	1	S82 and memory and transistor\$1 and piezoelectric and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:49
S84	964	PZT same (si ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:21
S85	310	PZT near10 (si ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:23
S86	6473	(ferroelectric piezoelectric) near10 (si silicon Germanium ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:24

## EAST Search History

S87	609	(ferroelectric piezoelectric) same PZT near10 (si silicon Germanium ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:29
S88	0	(ferroelectric piezoelectric) same PZT near10 (si silicon Germanium ge)near sbstrate\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:24
S89	0	(ferroelectric piezoelectric) same PZT near10 (si silicon Germanium ge) near sbstrate\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:24
S90	178	(ferroelectric piezoelectric) same PZT near10 (si silicon Germanium ge) near substrate\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 12:56
S91	431	S87 not S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:25
S92	52	S91 and (amount content\$1 concentration\$1 )near10 (si silicon Germanium ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:30
S93	27	S91 and (amount content\$1 concentration\$1 )near3 (si silicon Germanium ge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:30
S94	1	S82 and Si and GE	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:42

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S95	2	"20020009612"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:43
S96	0	S95 and transistor\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:43
S97	1	S95 and semiconductor\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:43
S98	1466	memory and transistor\$1 and piezoelectric and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:49
S99	235	memory same transistor\$1 and piezoelectric same actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:49
S100	23	ferroelectric near10 memory same transistor\$1 and piezoelectric same actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 11:50
S101	35	ferroelectric near10 memory same transistor\$1 and piezoelectric same actuator\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 12:55
S102	32	ferroelectric near10 memory same transistor\$1 same capacitor\$1 and piezoelectric same actuator\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 12:10